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International Textile Conference on **UNDERSTANDING TEXTILE 4.0 IN GLOBAL AND INDIAN PERSPECTIVE**

22nd & 23rd March 2018

(Thursday & Friday)

Hotel The Lalit, Mumbai

Sahar Airport Road, Andheri (E), Mumbai - 400 059, India

Organised by



MUMBAI UNIT

The Textile Association (India)
Mumbai Unit

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Understanding Textile 4.0 in Global and Indian perspective

Textile 4.0 is an interpretation and application of Industry Revolution 4.0 in the sectors of textiles and clothing industry.

The **first revolution** began in eighteenth century with water & steam being used as power in the manufacturing. The **Second Industrial Revolution**, (circa 1870-1914) also known as the **Technological Revolution**, was a phase of rapid industrialization in the 19th century and the beginning of the 20th. The most noteworthy was manufacturing of steel, Aluminium and plastic. It was powered by oil. Cars, buses and planes were the new means of transportation. The telephone, TV, cinema transformed society and the way, the world communicated. The **Revolution 3.0** began to shape the 21st century. Internet and billions of mobile and connected devices have rapidly redefined communication. Renewable energies, networks of electric and hydrogen powered drones and autonomous vehicles could redefine transportation. Artificial intelligence is replacing humans in a growing array of activities. Novel materials such as carbon nanotubes, bioplastics and graphene are poised to replace materials that were the hallmark of Revolution 2.0.

So what is Industry 4.0, and how is it applicable to textile industry globally and to India?

Industry 4.0 is the increasingly important trend of automation and data exchange in manufacturing technologies. It is the future of manufacturing. Its enhanced technology, digital systems and automated processes makes it optimum for manufacturing of quality products. It includes cyber-physical systems, the Internet of things, cloud computing and cognitive computing. Industry 4.0 creates what is being defined as a "smart factory".

The Industrial Revolution 4.0 commenced with baby steps in 2007. The world is at the threshold of a new industrial revolution characterised by a confluence of emerging technology breakthroughs, such as mobile connectivity, artificial intelligence, Internet of Things, next-generation robotics, 3D printing, wearables and genetic engineering, nanotechnology, advanced materials, biotechnology and others.

The primary focus of Industry 4.0 (I 4.0) aim is on increasing productivity, flexibility and efficiency. Industry 4.0 or I 4.0 is already being implemented in India, though joint ventures & collaborations in smart factories, smart cities and also in automobile industry.

Across the world there are discussions, events and thinking processes with the terms like Textile 4.0, Apparel 4.0 (or Apparel Manufacturing 4.0) and ManuTex4.0 are being used to relate with I4.0 and to draw a roadmap for the future of textile manufacturing.

There is certainty that the radical change is coming, but in what form and shape will it take for textiles, textile technology & apparels?

How should textile companies engage with the new trend, what impacts will it have throughout the textile value chain?

What the future might hold for textile business and investments in textiles?

How textile supply chains in high-wage countries will be impacted?

And what would be the impact and influence of technology across industry sectors like Spinning, Weaving, Textile Processing (Dyeing & finishing) and Apparel Manufacturing etc?

Impact of Textile 4.0 on Indian textile industry

TAI, Mumbai Unit organises this International Conference and this will be the first such forum for the textile industry in India to hear experts through presentations and panels on topics that matter the most when preparing for I 4.0.

TAI Conference

The seminars / conferences organized by The Textile Association (India), Mumbai Unit has always selected contemporary & innovative topics and high profile speakers. This Conference is no exception. Eminent industrialists, policy makers, reputed professionals and renowned experts from different parts of the world will present their papers to over 300 equally high profile participants. This will give a rare opportunity to the participants to listen to such high quality experts.

An Appeal

The successes of our Conferences / Seminars depends on the financial support from our valued sponsors. You have been very supportive and proactive in the activities of TAI, Mumbai Unit and we look forward for the same support and active participation in this conference also. We assure you to provide maximum publicity and visibility to your valued products / activities. Your participation in this conference by way of sponsorships, advertisements and delegates would provide a common platform to meet the experts from the industry. The main advantage will be an opportunity to exchange the views on the latest developments in the field of the textiles related to I 4.0.

We appreciate your support to The Textile Association (India), Mumbai Unit in its activities and it is our pleasure to invite you to be part of this event. Let us join hands to make this conference a great success.

V. C. Gupte
Chairman & Convener

G. V. Aras
Jt. Convener

T. K. Sengupta
Conference Advisor

T. K. Chandra
Conference Advisor

A. V. Mantri
Hon. Secretary

Topics To Be Covered

- What is Industry 4.0 & what is its Impact on Textile machinery & Manufacturing?
- Textile 4.0 : Profitability Through Productivity, Quality & Sustainability?
- Relevance of Textile 4.0 in Fibre Industry
- Digitisation Initiative & Textile 4.0
- Innovations in Processing Machinery incorporating Industry 4.0 technologies
- Automation in Process House
- Sustainability and Industry 4.0
- ERP Software Solution for Textile Industry

Panel Discussion

Panel Discussion comprised of renowned experts from the textile industry will be the main attraction of the conference. This will give an opportunity to the delegates to raise the queries which will be answered by the expert panel.